

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:48

INPUT SET: S29661.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information
4
5 (i) APPLICANT: ELAZAR RABBANI
6 JANNIS G. STAVRIANOPOULOS
7 JAMES J. DONEGAN
8 DAKAI LIU
9 NORMAN E. KELKER
10 DEAN L. ENGELHARDT
11
12 (ii) TITLE OF INVENTION: NOVEL PROPERTY EFFECTING
13 AND/OR PROPERTY EXHIBITING COMPOSITIONS FOR
14 THERAPEUTIC AND DIAGNOSTIC USE
15
16 (iii) NUMBER OF SEQUENCES: 42
17
18 (iv) CORRESPONDENCE ADDRESS:
19 (A) ADDRESSEE: ENZO THERAPEUTICS, INC.
20 (B) STREET: C/O ENZO BIOCHEM, INC.
21 527 MADISON AVENUE,
22 9TH FLOOR
23 (C) CITY: NEW YORK
24 (D) STATE: NY
25 (E) COUNTRY: USA
26 (F) ZIP: 10022
27
28 (v) COMPUTER READABLE FORM:
29 (A) MEDIUM TYPE: 3.5" Micro Floppy Disk. 1.44 KB
30 STORAGE
31 (B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES
32 (C) OPERATING SYSTEM: PC-DOS
33 (D) SOFTWARE: MICROSOFT WORD ____ - ASCII TEXT (DOS)
34
35 (vi) CURRENT APPLICATION DATA:
36 (A) APPLICATION NUMBER: US 08/978,636
37 (B) FILING DATE: 25-NOVEMBER-1997
38 (C) CLASSIFICATION: Not Yet Known
39
40 (viii) ATTORNEY/AGENT INFORMATION:
41 (A) NAME: FEDUS, RONALD C.
42 (B) REGISTRATION NUMBER: 32,567
43 (C) REFERENCE/DOCKET NUMBER: ENZ-53(D3)
44
45 (ix) TELECOMMUNICATION INFORMATION:
46 (A) TELEPHONE: (212) 583-0100

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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:50

INPUT SET: S29661.raw

47 (B)TELEFAX:(212) 583-0150
48
49 (2) INFORMATION FOR SEQ ID NO:1:
50
51 (i) SEQUENCE CHARACTERISTICS:
52 (A) LENGTH:20 amino acids
53 (B) TYPE:amino acid
54 (C) STRANDEDNESS:single
55 (D) TOPOLOGY:linear
56
57 (ii) MOLECULE TYPE: peptide
58
59 (iii) HYPOTHETICAL: NO
60
61 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:1:
62 Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly 15
63 1 10
64
65 Met Ile Ala Gly
66 20
67
68
69
70 (2) INFORMATION FOR SEQ ID NO:2:
71
72 (i) SEQUENCE CHARACTERISTICS:
73 (A) LENGTH:20 base pairs
74 (B) TYPE:nucleic acid
75 (C) STRANDEDNESS:double
76 (D) TOPOLOGY:linear
77
78 (ii) MOLECULE TYPE: DNA (genomic)
79
80 (iii) HYPOTHETICAL: NO
81
82 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:2:
83 TGCTCTCTAA GGTCTACTC 20
84
85
86
87 (2) INFORMATION FOR SEQ ID NO:3:
88
89 (i) SEQUENCE CHARACTERISTICS:
90 (A) LENGTH:15 base pairs
91 (B) TYPE:nucleic acid
92 (C) STRANDEDNESS:double
93 (D) TOPOLOGY:linear
94
95 (ii) MOLECULE TYPE: DNA (genomic)
96
97 (iii) HYPOTHETICAL: NO
98
99 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:3:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
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INPUT SET: S29661.raw

100
101 CTCTAAGGTA AATAT 15
102
103
104 (2) INFORMATION FOR SEQ ID NO:4:
105
106 (i) SEQUENCE CHARACTERISTICS:
107 (A) LENGTH:16 base pairs
108 (B) TYPE:nucleic acid
109 (C) STRANDEDNESS:double
110 (D) TOPOLOGY:linear
111
112 (ii) MOLECULE TYPE: DNA (genomic)
113
114 (iii) HYPOTHETICAL: NO
115
116 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:4:
117
118 TGTATTTTAG ATTCAA 16
119
120
121 (2) INFORMATION FOR SEQ ID NO:5:
122
123 (i) SEQUENCE CHARACTERISTICS:
124 (A) LENGTH:19 base pairs
125 (B) TYPE:nucleic acid
126 (C) STRANDEDNESS:double
127 (D) TOPOLOGY:linear
128
129 (ii) MOLECULE TYPE: DNA (genomic)
130
131 (iii) HYPOTHETICAL: YES
132
133 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:5:
134
135 TGCTCTCTAA GGTAATAT 19
136
137
138 (2) INFORMATION FOR SEQ ID NO:6:
139
140 (i) SEQUENCE CHARACTERISTICS:
141 (A) LENGTH:19 base pairs
142 (B) TYPE:nucleic acid
143 (C) STRANDEDNESS:double
144 (D) TOPOLOGY:linear
145
146 (ii) MOLECULE TYPE: DNA (genomic)
147
148 (iii) HYPOTHETICAL: YES
149
150 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:6:
151
152 TGTATTTTAG GGTCTACTC 19

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:53

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153
154 (2) INFORMATION FOR SEQ ID NO:7:
155
156 (i) SEQUENCE CHARACTERISTICS:
157 (A) LENGTH:19 base pairs
158 (B) TYPE:nucleic acid
159 (C) STRANDEDNESS:single
160 (D) TOPOLOGY:linear
161
162 (ii) MOLECULE TYPE: mRNA
163
164 (iii) HYPOTHETICAL: YES
165
166 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:7:
167
168 UGCUCUCUAA GGUAAAUAU 19
169
170
171 (2) INFORMATION FOR SEQ ID NO:8:
172
173 (i) SEQUENCE CHARACTERISTICS:
174 (A) LENGTH:19 base pairs
175 (B) TYPE:nucleic acid
176 (C) STRANDEDNESS:single
177 (D) TOPOLOGY:linear
178
179 (ii) MOLECULE TYPE: mRNA
180
181 (iii) HYPOTHETICAL: YES
182
183 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:8:
184
185 UGUUUUUUAG GGUCUACUC 19
186
187
188 (2) INFORMATION FOR SEQ ID NO:9:
189
190 (i) SEQUENCE CHARACTERISTICS:
191 (A) LENGTH:20 base pairs
192 (B) TYPE:nucleic acid
193 (C) STRANDEDNESS:single
194 (D) TOPOLOGY:linear
195
196 (ii) MOLECULE TYPE: mRNA
197
198 (iii) HYPOTHETICAL: YES
199
200 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:9:
201
202 UGCUCUCUAA GGGUCUACUC 20
203
204
205 (2) INFORMATION FOR SEQ ID NO:10:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:55

INPUT SET: S29661.raw

206
207 (i) SEQUENCE CHARACTERISTICS:
208 (A) LENGTH:49 base pairs
209 (B) TYPE:nucleic acid
210 (C) STRANDEDNESS:single
211 (D) TOPOLOGY:linear
212
213 (ii) MOLECULE TYPE: other nucleic acid
214 (A) DESCRIPTION: /desc = "oligonucleotide"
215
216 (iii) HYPOTHETICAL: YES
217
218 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:10:
219
220 GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGC 49
221
222
223 (2) INFORMATION FOR SEQ ID NO:11:
224
225 (i) SEQUENCE CHARACTERISTICS:
226 (A) LENGTH:55 base pairs
227 (B) TYPE:nucleic acid
228 (C) STRANDEDNESS:single
229 (D) TOPOLOGY:linear
230
231 (ii) MOLECULE TYPE: other nucleic acid
232 (A) DESCRIPTION: /desc = "oligonucleotide"
233
234 (iii) HYPOTHETICAL: YES
235
236 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:11:
237
238 GACTAGTTGG TCTCGTCTCT TTTTGGAGG AGTGTCTGTTT TTAGCGATGT TAATC 55
239
240
241 (2) INFORMATION FOR SEQ ID NO:12:
242
243 (i) SEQUENCE CHARACTERISTICS:
244 (A) LENGTH:46 base pairs
245 (B) TYPE:nucleic acid
246 (C) STRANDEDNESS:single
247 (D) TOPOLOGY:linear
248
249 (ii) MOLECULE TYPE: other nucleic acid
250 (A) DESCRIPTION: /desc = "oligonucleotide"
251
252 (iii) HYPOTHETICAL: YES
253
254 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:12:
255
256 GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC 46
257
258

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:42:57

INPUT SET: S29661.raw

***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

814 (2) INFORMATION FOR SEQ ID NO:42:

815

816 (i) SEQUENCE CHARACTERISTICS:

817 (A) LENGTH:67 base pairs

818 (B) TYPE:nucleic acid

819 (C) STRANDEDNESS:single

820 (D) TOPOLOGY:linear

821

822 (ii) MOLECULE TYPE: other nucleic acid

823 (A) DESCRIPTION: /desc = "oligonucleotide"

824

825 (iii) HYPOTHETICAL: YES

826

827 (ix) SEQUENCE DESCRIPTION:SEQ ID NO:42:

828

829 CCGGATAATA CGACTCACTA TAGGGCGAGC TCGGTACCCG GGTCTAGAGT CGACCTGCAG 60

830

831 GCATGCT 67

832

833

834

835

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/978,636

DATE: 11/08/98
TIME: 17:42:58

INPUT SET: S29661.raw

Original Text

(C)CLASSIFICATION:Not Yet Known

Line	Error
38	Wrong Classification

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/08/978,636

DATE: 11/08/98
TIME: 17:42:58

INPUT SET: S29661.raw

APPLICATION NUMBER
FILING DATE
PRIOR APPLICATION DATA

SEQUENCE CORRECTION REPORT
PATENT APPLICATION *US/08/978,636*DATE: 11/08/98
TIME: 17:42:58*INPUT SET: S29661.raw*

Corrected Text

Line	Original Text	Corrected Text
3	(1) General Information	(1) GENERAL INFORMATION:
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49	(2)INFORMATION FOR SEQ ID NO: 1	(2) INFORMATION FOR SEQ ID NO:1:
70	(3)INFORMATION FOR SEQ ID NO. 2:	(2) INFORMATION FOR SEQ ID NO:2:
87	(4)INFORMATION FOR SEQ ID NO. 3:	(2) INFORMATION FOR SEQ ID NO:3:
104	(5)INFORMATION FOR SEQ ID NO. 4:	(2) INFORMATION FOR SEQ ID NO:4:
121	(6)INFORMATION FOR SEQ ID NO. 5:	(2) INFORMATION FOR SEQ ID NO:5:
138	(7)INFORMATION FOR SEQ ID NO. 6:	(2) INFORMATION FOR SEQ ID NO:6:
154	(8)INFORMATION FOR SEQ ID NO. 7:	(2) INFORMATION FOR SEQ ID NO:7:
171	(9)INFORMATION FOR SEQ ID NO. 8:	(2) INFORMATION FOR SEQ ID NO:8:
188	(10)INFORMATION FOR SEQ ID NO. 9:	(2) INFORMATION FOR SEQ ID NO:9:
205	(11)INFORMATION FOR SEQ ID NO. 10:	(2) INFORMATION FOR SEQ ID NO:10:
223	(12)INFORMATION FOR SEQ ID NO. 11:	(2) INFORMATION FOR SEQ ID NO:11:
241	(13)INFORMATION FOR SEQ ID NO. 12:	(2) INFORMATION FOR SEQ ID NO:12:
259	(14)INFORMATION FOR SEQ ID NO. 13:	(2) INFORMATION FOR SEQ ID NO:13:
277	(15)INFORMATION FOR SEQ ID NO. 14:	(2) INFORMATION FOR SEQ ID NO:14:
295	(16)INFORMATION FOR SEQ ID NO. 15:	(2) INFORMATION FOR SEQ ID NO:15:
312	(17)INFORMATION FOR SEQ ID NO. 16:	(2) INFORMATION FOR SEQ ID NO:16:
330	(18)INFORMATION FOR SEQ ID NO. 17:	(2) INFORMATION FOR SEQ ID NO:17:
348	(19)INFORMATION FOR SEQ ID NO. 18:	(2) INFORMATION FOR SEQ ID NO:18:
367	(20)INFORMATION FOR SEQ ID NO. 19:	(2) INFORMATION FOR SEQ ID NO:19:
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519	(28)INFORMATION FOR SEQ ID NO. 27:	(2) INFORMATION FOR SEQ ID NO:27:
539	(29)INFORMATION FOR SEQ ID NO. 28:	(2) INFORMATION FOR SEQ ID NO:28:
559	(30)INFORMATION FOR SEQ ID NO. 29:	(2) INFORMATION FOR SEQ ID NO:29:
580	(31)INFORMATION FOR SEQ ID NO. 30:	(2) INFORMATION FOR SEQ ID NO:30:
598	(32)INFORMATION FOR SEQ ID NO. 31:	(2) INFORMATION FOR SEQ ID NO:31:
618	(33)INFORMATION FOR SEQ ID NO. 32:	(2) INFORMATION FOR SEQ ID NO:32:
638	(34)INFORMATION FOR SEQ ID NO. 33:	(2) INFORMATION FOR SEQ ID NO:33:
656	(35)INFORMATION FOR SEQ ID NO. 34:	(2) INFORMATION FOR SEQ ID NO:34:
674	(36)INFORMATION FOR SEQ ID NO. 35:	(2) INFORMATION FOR SEQ ID NO:35:
694	(37)INFORMATION FOR SEQ ID NO. 36:	(2) INFORMATION FOR SEQ ID NO:36:
714	(38)INFORMATION FOR SEQ ID NO. 37:	(2) INFORMATION FOR SEQ ID NO:37:
734	(39)INFORMATION FOR SEQ ID NO. 38:	(2) INFORMATION FOR SEQ ID NO:38:
754	(40)INFORMATION FOR SEQ ID NO. 39:	(2) INFORMATION FOR SEQ ID NO:39:
774	(41)INFORMATION FOR SEQ ID NO. 40:	(2) INFORMATION FOR SEQ ID NO:40:
794	(42)INFORMATION FOR SEQ ID NO. 41:	(2) INFORMATION FOR SEQ ID NO:41:
814	(43)INFORMATION FOR SEQ ID NO. 42:	(2) INFORMATION FOR SEQ ID NO:42:

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/978,636*

DATE: 11/08/98
TIME: 17:43:00

INPUT SET: S29661.raw

Original Text

(C)CLASSIFICATION:Not Yet Known

Line	Error
38	Wrong Classification

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION *US/08/978,636*

DATE: 11/08/98
TIME: 17:43:00

INPUT SET: S29661.raw

APPLICATION NUMBER
FILING DATE
PRIOR APPLICATION DATA

SEQUENCE CORRECTION REPORT
PATENT APPLICATION US/08/978,636DATE: 11/08/98
TIME: 17:43:00

INPUT SET: S29661.raw

Line	Original Text	Corrected Text
3	(1) General Information	(1) GENERAL INFORMATION:
45	(ix)TELECOMMUNICATION INFORMATION:	(ix) TELECOMMUNICATION INFORMATION:
49	(2)INFORMATION FOR SEQ ID NO: 1	(2) INFORMATION FOR SEQ ID NO:1:
70	(3)INFORMATION FOR SEQ ID NO. 2:	(2) INFORMATION FOR SEQ ID NO:2:
87	(4)INFORMATION FOR SEQ ID NO. 3:	(2) INFORMATION FOR SEQ ID NO:3:
104	(5)INFORMATION FOR SEQ ID NO. 4:	(2) INFORMATION FOR SEQ ID NO:4:
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138	(7)INFORMATION FOR SEQ ID NO. 6:	(2) INFORMATION FOR SEQ ID NO:6:
154	(8)INFORMATION FOR SEQ ID NO. 7:	(2) INFORMATION FOR SEQ ID NO:7:
171	(9)INFORMATION FOR SEQ ID NO. 8:	(2) INFORMATION FOR SEQ ID NO:8:
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205	(11)INFORMATION FOR SEQ ID NO. 10:	(2) INFORMATION FOR SEQ ID NO:10:
223	(12)INFORMATION FOR SEQ ID NO. 11:	(2) INFORMATION FOR SEQ ID NO:11:
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774	(41)INFORMATION FOR SEQ ID NO. 40:	(2) INFORMATION FOR SEQ ID NO:40:
794	(42)INFORMATION FOR SEQ ID NO. 41:	(2) INFORMATION FOR SEQ ID NO:41:
814	(43)INFORMATION FOR SEQ ID NO. 42:	(2) INFORMATION FOR SEQ ID NO:42: